

# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 25] नई दिल्ली, शनिवार, जून 18, 1994 (ज्येष्ठ 28, 1916)  
No. 25] NEW DELHI, SATURDAY, JUNE 18, 1994 (JYAISTHA 28, 1916)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

### THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 18th June 1994

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

Patent Office Branch, Todi Estates,  
III Floor, Lower Parel (West),  
Bombay-400 013.

The States of Gujarat,  
Maharashtra, and Madhya Pradesh,  
and the Union Territories of Goa,  
Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana,  
Himachal Pradesh, Jammu and  
Kashmir, Punjab, Rajasthan and  
Uttar Pradesh and the Union Territories of  
Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

1—117 GI/94

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh,  
Karnataka, Kerala, Tamilnadu,  
and the Union Territories of  
Pondicherry, Laccadive,  
Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O.  
Building, 5th, 6th and 7th  
Floor, 234/4, Acharya Jagadish  
Bose Road, Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

*Fees* : The fees may either be paid in cash or may be sent by Money Order payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated

## पेटेंट कार्यालय

एकस्य तथा अभिकल्प

कलकत्ता, दिनांक 18 जून 1994

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी हस्टेड,  
तीसरा तल, लोकर परले (पश्चिम),  
बम्बई-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा  
दीव एवं दादरा और नगर हवेली ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोख बाग,  
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,  
61, बालाजाह रोड,  
मद्रास-600002 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,  
मिन्निकाय तथा एमिनिदिवि द्वीप ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुरतीर कार्यालय,  
भवन 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700020 ।

भारत का अवलोकन क्षेत्र ।

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में उप-  
स्थित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट  
कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे ।

शब्द :—शुल्कों की जमायगी या तो नव्व की जाएगी अथवा  
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनावेश  
अथवा डाक आवेदों या जहां उपयुक्त कार्यालय अवस्थित है; उस स्थान  
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट  
अथवा बैंक द्वारा की जा सकती है ।

## CORRIGENDA

In the Gazette of India, Part-III, Sec. 2, dated the 09th January, 1993 Page-21, Col.-1 for application for Patent No. 787/Del/87, filed on 07th September 1987 read the applicants as UOP INC.

In the Gazette of India, Part-III, Sec.-2, dated the 23rd January 1993, (a) In page-60, col.-1 for application for Patent No. 189/Cal/89 filed on 23rd March 1989 read the applicants as MONOLITE S.R.L. instead of MONOLITE S.R.I.,

(b) In page-74, col. 2 for application for Patent No. 956/Del/88 filed on 04th November 1988 read the accepted No. as 171860.

In the Gazette of India, Part-III, Sec. 2, dated 30th January, 1993-(a) In page-90, col.-01 for application for Patent No. 325/Bom/89 filed on 23rd November 1980, read the first applicant as ARUNA K. RATHI instead of ARUNA K. RAHI and Patent No. 325/Bom/89 instead of 325/Bom/80.

(b) In page-96, col.-2 for application for Patent No. 120/Bom/91 filed on 02nd May 1991 read the applicants as HINDUSTAN LEVER LIMITED, instead of HINDUSTANT LEVER LIMITED

In the Gazette of India, Part-III, Sec. 2, dated the 20th February 1993 page-149, col. 2 for application for Patent No. 652/Mas/88 filed on 16th September 1988 read the applicants as THE DOW CHEMICAL COMPANY instead of THE LOW CHEMICAL COMPANY,

In the Gazette of India, Part-III, Sec. 2, dated the 06th November 1993 page-922, col.-1 for application for Patent No. 342/Cal/91 filed on 03rd May, 1991 read the Patent Addition to 290/Cal/84 dated 1st May 1984.

Under the heading 'PATENT SEALED' in the Gazette of India, Part-III, Section 2, dated 9-7-1993, Delete No. 170444.

APPLICATION FOR PATENT FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent branch are the dates claimed under section 135, of the patent Act, 1970.

27th April 1994

- 300/Cal/94. Dr. Baidya Nath Samaddar. Novel cement composition containing blast furnace slag or slags of simila composition.
- 301/Cal/94. Dr. Baidya Nath Samaddar. A novel bonding agent and compositions and articles made therefrom.
- 302/Cal/94. Dr. Baidya Nath Samaddar. Improvements in or relating to bricks and structures made therewith.
- 303/Cal/94. Ram Nath Chowdhury. Filter media for water filter.

304/Cal/94. Hari Machines Limited. Automatic backwash mechanism for packaged automatic filtration plant.

305/Cal/94. Siemens Aktiengesellschaft. Seal Arrangement for a passage, through a casing, for a shaft and method of operating the seal arrangement.

306/Cal/94. Hoechst Aktiengesellschaft. Process for preparing 3-chloroanthranilic alkyl esters of high purity from 3-chloroanthranilic acid.

307/Cal/94. Johnson & Johnson Inc. Non-woven panty liner and a method and apparatus for manufacturing same.

28th April 1994

308/Cal/94. Baliaji Chemical Corporation. A process for making an organic plant based plant protectant and growth stimulant.

309/Cal/94. Spherilene S.r.l. Elastomeric copolymers of ethylene with propylene and process for their preparation.

310 Cal/94. Spherilene S.r.l. Elastomeric copolymers of ethylene and propylene.

311/Cal/94. Spherilene S.r.l. Elastomeric copolymers of ethylene with alpha olefins and process for their preparation.

312/Cal/94. Ready Light Energy Ltd. Discharge lamp dimmer.

313/Cal/94. Quest International EV. Fabric conditioner with deodorant perfume composition.

(convention No. 9308953.0 dated 30th April, 1993 in Great Britain)

314/Cal/94. Pepsico Inc. Blow molded plastic container including handgrip.

315/Cal/94. Re-mark-it Holdings Limited. An erasable product.

29th April, 1994

316/Cal/94. Hoechst Celanese Corporation. Improved process for preparing acyl aminophenols.

317/Cal/94. Siemens Aktiengesellschaft. Circuit arrangement for a switching system.

318/Cal/94. Bellsouth International Inc. Apparatus and method for remotely initiating operation of a cellular telephone.

319/Cal/94. Blake A. Ledingham. Paint brush with replaceable bristle pack.

2nd May, 1994

320/Cal/94. Ohio Electronic Engravers, Inc., Cylinder support apparatus and method for use in an engraver.

321/Cal/94. Patton Tanks Limited. Improvements in/or relating to storage containers.

322/Cal/94. Dr. Binod Kumar Varma. A process for obtaining kumum seed animal feedstock or feed stock-supplement.

3rd May, 1994

323/Cal/94. Diagnostics & Devices, Inc. Breath Collection Devices.

324/Cal/94. Samsung Corning Co. Ltd. A panel-testing apparatus.

325/Cal/94. Licentia Patent-Verwaltungs-GmbH. Fault current module, which can be set together with automatic cutout.

326/Cal/94. Hitachi, Ltd. Static Induction Electric machine.

327/Cal/94. Shama Pada Roy. Production of mag. carbon refractory bricks from used refractoria.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, IIIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY-13.

15-3-1994

95/Bom/94. Sing-Wang Cheng Prevention of unwanted fire.

96/Bom/94. Anand Govind Bhole. Clari-Tapered-flocculator.

97/Bom/94. Hindustan Lever Limited Synthetic detergent bar and manufacture thereof.  
U. K. Priority dt. 16-3-93.

16-3-1994

98/Bom/94. M/s. J. B. Chemicals & Pharmaceuticals Ltd. 1, 4-dihydro-2, 6-dimethyl-4- (2-Nitro phenyl)-3, 5-pyridine dicarboxylic acid dimethyl ester.

99/Bom/94. Surendra Ramanlal Shah and Girdhar Gopal Vishwanath Mishra Theft proof luggage for baggage.

100/Bom/94. Dilip Shantaram Dehanukar. A method of instant cooking of rice, dal and the like cereals.

17-3-1994

101/Bom/94. Outokumpu Harjavalta Metals Oy. Method and apparatus for increasing the efficiency of a waste heat boiler.

102/Bom/94. Dilip Shantaram Dehanukar. Improved device for pheromone female bait to attract and trap moths, flies, insects and the like.

18-3-1994

103/Bom/94. Satish B. Purohit. A development of a single point cutting tool with HSS insert.

21-3-1994

104/Bom/94. Narayan Bhagwandas Samani. Special stopper for plastic container.

105/Bom/94. Dinesh Hundraj Nenwani. An improved chopper attachment for mixer grinder machine.

106/Bom/94. Thermax Ltd. A fluidised bed paint stripper.

107/Bom/94. Hindustan Lever Limited. Peroxyacids.  
U. K. Priority dt. 22-3-1993.

22-3-1994

108/Bom/94. Hindustan Lever Limited. Treatment.

109/Bom/94. Liladhar Sannabhadhi. A modified half bridge circuit.

110/Bom/94. Suresh Purnanand Vaid & Setu Purnanand Vaid Pill storing device.

23-3-1994

111/Bom/94. Harivadan Lallubhai Parikh. Single phasing preventor.

112/Bom/94. Harivadan Lallubhai Parikh. Computable diary.

24-3-1994

113/Bom/94. Hindustan Lever Limited Process for making shaped articles.

U. K. Priority dt. 24-3-93

114/Bom/94. Dr. Panikka Veetil Majeed. High output kerosene stove with multiple heat exchangers.

25-3-1994

- 115/Bom/94. Ashok Namdeo Gokhale. Drill point, grinding machine generating six faceted drill point.
- 116/Bom/94. Hindustan Lever Ltd. Process.
- 117/Bom/94. J. B. Chemicals & Pharmaceuticals Ltd. 2,6-dichloro-phenol by chlorination of phenol.
- 118/Bom/94. J. B. Chemicals & Pharmaceuticals Ltd. A novel method for the extraction and manufacture of energy, vitality and immunity enhancing herbal drug products.

APPLICATIONS FOR PATENTS FILED AT THE PATENT  
OFFICE BRANCH, 61, WALLAJAH ROAD,  
MADRAS-600 002.

4th April, 1994

- 253/Mas/94. Reejo Antony. Making drawings writing of any sort on the photographic printing paper (all types and sizes) (exposed) by way of scratching with the help of water or any other liquid or by manual or screen printing method.
- 254/Mas/94. Mysore Sandal Products. Preparing unique indigenous traditional medicine in base of Sandal Wood oil & neem seed oil for curing the disease of asthma completely.
- 255/MAS/94. Indian Institute of Science. A roll compacted iron electrode.
- 256/MAS/94. Rhone-Poulenc Chimie. Process for the preparation of carboxylic acids or the corresponding esters in the presence of a catalyst based on iridium.
- 257/MAS/94. Rhone-Pulenc Chimie. Process for the preparation of carboxylic acids of corresponding esters in the presence of a catalyst based on rhodium and iridium.
- 258/MAS/94. Belco Technologies Corp. System for controlling an electrostatic precipitator using digital signal processing.

5th April, 1994

- 259/MAS/94. Nagarathina Achari Mani Achari Simple agricultural plough with depth mechanism.
- 260/MAS/94. Sultan Ahmed Ismail. Paste for an antiinflammatory drug.
- 261/MAS/94. M.V.S. Raju. Reclamation of sericin and dye free water for reuse from waste effluents from the process of dyeing of cocoon based silk yarn and fabric.
- 262/MAS/94. Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Bottom roller driving mechanism for draft part of spinning machine.
- 263/MAS/94. Refratechnik GmbH. Refractory brick for lining in particular metallurgical vessels.
- 264/MAS/94. Ausmelt Limited. Smelting of carboncontaining material. (April 6, 1993; Australia).
- 265/MAS/94. Calvi Maria Adele. A synthetic resin tube for winding yarn intended for dyeing and other treatments.
- 266/MAS/94. Usinor Sacilor and Thyssen Stahl Aktiengesellschaft. Device for rapidly changing and maintaining a lateral wall of a machine for the continuous casting of a metal product between rolls.

6th April 1994

- 267/MAS/94. Sree Chitra Tirunal Institute for Medical Sciences & Technology. Double umbrella occluder device for cardiovascular application.
- 268/MAS/94. Maschinenfabrik Rieter AG. Arc as a sliding guide for flat cards.
- 269/MAS/94. Hoechst Aktiengesellschaft. Aqueous synthetic resin dispersion.
- 270/MAS/94. Hoechst Aktiengesellschaft. Polymer mixtures.

8th April 1994

- 271/MAS/94. Tom Chirackalpurayidam Abraham, Georgekutty Augusthy and Babu Muttathu Narayanan. Corrugated sheets.
- 272/MAS/94. Nidamangala Srinivasa Venkatesh. Pulping silk cotton floss using Lye (an extract of prosopis woodish).
- 273/MAS/94. Dr. C. K. Rajkumar. Anti-diabetic sugar/toffees/bread/soft drinks.
- 274/MAS/94. Srinivasa Iyer Gopalakrishnan. An automatic electronic relay for pump control.
- 275/MAS/94. Srinivasa Iyer Gopalakrishnan. Phase sequence assurance relay with animated display.
- 276/MAS/94. Srinivasa Iyer Gopalakrishnan. An electronic overload relay with bicolour flashers and deepers for three phase loads with individual settings for the three line currents with discriminated delays for severe, non-severe and single phase/phase failure load conditions.
- 277/MAS/94. American Telephone & Telegraph Company. Multimedia communications network.
- 278/MAS/94. John O. Butler Company. Toothbrush.
- 279/MAS/94. Oxford Biosciences Limited. Particle Delivery. (April 8, 1993; Great Britain).
- 280/MAS/94. Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Apparatus and method for controlling displacement of doffing bar in simultaneous copy-changer of spinning machine.

## ALTERATION OF DATE UNDER SECTION-16

Patent No. 173643

(758/Mas/91).

Ante-dated to 1st February 1989.

Patent No. 173644.

(759/Mas/91).

Ante-dated to 1st February 1989.

Patent No. 173645

(760/Mas/91).

Ante-dated to 19th September 1988.

Patent No. 173646

(853/Mas/91).

Ante-dated to 19-3-90.

Patent No. 173647 (871/Mas/91)—Ante-dated to 4th April 1990.

Patent No. 173648 (872/Mas/91)—Ante-dated to 4-4-90

Patent No. 173654

(334/M/89)

Ante-dated to 10th September 1985.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule-36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta or the appropriate Branch Office on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be culculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by two to get the charges as the copying charges per page are Rs. 2/-.

## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके दिर्गम की तिथि से चार(4) महीने या अठारह (18) वर्षों में अर्थात् 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक नहीं, के भीतर कभी भी नियंत्रक, एकत्र को उपयुक्त कार्यालय को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकता है। विरोध संबंधी लिखित दस्तावेज, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप है।”

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी प्रदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का रिक्कलन किया जा सकता है।

Ind. Cl.: 145 B.

173621

Int. Cl.4: D21H 5/10.

SECURITY PAPER FOR SECURITY DOCUMENTS AND A PROCESS FOR THE MANUFACTURE OF THE SAME.

Applicant: PORTALS LIMITED, Or OVERTON MILL, OVERTON BASINGSTOKE, HAMPSHIRE, UNITED KINGDOM.

Inventors: RAYMOND JOSEPH MELLING, MALCOLM ROBERT MURRAY-KNIGHT.

Application for Patent No. 974/Del/88 filed on 10 November 1988.

Convention date 4-12-87/8728390/UK, 31-8-88/8820535. 6/UK.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, New Delhi-110005.

## 17 Claims

Security paper for security documents comprising opposed surfaces for the provision of printing to identify a document formed from the paper, and positioned at least partially between the two surfaces of the paper a security means of not more than 5mm width, characterised in that said security means comprises a flexible, water-impermeable substrate with a layer of metal on one or both sides of the substrate, there being present on one side of the security means a continuous metal path along its length, said security means having metal-free light permeable portions of between 10% and 50% of the surface area of the security means, said metal-free portions along the length of the security means providing a repeating pattern, design or indicia with at least some of the metal-free portions across the transverse direction of the security means being wholly surrounded by metal

A process for making security paper for security documents comprising producing paper by a continuous papermaking process, continuously incorporating a preformed security means into the paper during said papermaking process to produce security paper, dividing the security paper to form a plurality of substantially identical pieces of security paper and printing said pieces of security paper to form substantially identical security documents.

FIG. 1. PORTALS B006

FIG. 2. PORTALS B

FIG. 3. PORTALS B

FIG. 4. PORTALS PORTALS B006

FIG. 5. PORTALS B

FIG. 6. PORTALS B

FIG. 7. PORTALS B

FIG. 8. PORTALS B

(Compl. Specn. 27 pages &amp; Drwg 1 sheets).

Ind. Cl. : 140 A<sub>2</sub>

173622

Claims 5

Int. Cl.<sup>4</sup> : C10M 125/06.

A SULFUR-CONTAINING COMPOSITION FOR USE AS AN ADDITIVE IN LUBRICANTS AND A LUBRICANT COMPOSITION CONTAINING THE SAME.

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A.

Inventors : FRANK VICTOR ZALAR, KIRK EMERSON DAVIS & REED HUBER WALSH.

Application for Patent No. 575/DEL/87 filed on 07th Jul 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## Claims 14

A Sulfur-containing composition for use as an additive in lubricants and functional fluid which comprises

(A) at least one first sulfurised-Diels-Alder adduct such as herein described which comprises the reaction product of a sulfur compound of the kind as herein described and at least one Diels-Alder adduct in a molar ratio of not less than 1.7:1.

(B) at least one second material comprising one or more of the group consisting of

(B-1) a sulfurised Diels-Alder adduct comprising the reaction product of a sulfur compound such as herein described and a Diels-Alder adduct in a molar ratio of less than 1.7:1,

(B-2) a terpene compound such as herein described,

(B-3) at least one olefinic compound of the formula  $R^1 R^2 C=CR^3 R^4$

wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are independently, hydrogen or an organic group, and the olefinic double bond is non-aromatic,

(B-4) a mixture comprising (B-2) and (B-3),

(B-5) a sulfurised compound obtained by sulfurizing a terpene (B-2), at least one olefinic compound (B-3) or mixtures of (B-2) and (B-3), and

(B-6) an organo disulfide of the formula  $R-S-S-R$  wherein each R is independently a hydrocarbyl group, the weight ratio of said component (A) to component (B) being from 1:10 to 10:1.

(Comp. Spcn. 75 pages)

Drwgs. sheet 3)

Ind. Cl. : 129 Q.

173623

Int. Cl.<sup>4</sup> : C22C 21/00.

A METHOD OF WELDING TOGETHER ALUMINUM COMPONENTS.

Applicant : ALCAN INTERNATIONAL LIMITED, A CANADIAN COMPANY, OF 1188 SHERBROOKE STREET WEST, MONTREAL, QUEBEC, CANADA H3A 3G2.

Inventors : NIGEL JOHN HENRY HOLROYD. WARREN HEPPLES. GEOFFREY MACK SCAMANS.

Applicant for Patent No. 856/DEL/87 filed on 28 Sep 1987. Convention date 26 Sep 1986/23160/UK.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

A method of welding together aluminum components which comprises.

Positioning aluminum components to be welded with their surfaces (flaying surfaces) in contact and applying molten metal by the use of a welding wire which is melted to form a weld bead along the or each line bounding the flaying surfaces;

characterised in that the welding wire is of an alloy containing at least one of Ga, In and Sn in an amount to make more negative the potential of the weld bead, and in that the welding is performed under conditions to prevent significant migration of Ga, In or Sn or into the components.

(Comp Spcn. 19 pages;

Drwg 1 sheet)

Ind. Cl. : 13 D [XL(1)]

173624

Int. Cl.<sup>4</sup> : A45C 13/28

AN ARTICLE OF LUGGAGE INCORPORATING THE COMBINATION OF A HANDLE UNIT AND AN AUXILIARY STRAP MEANS.

Applicant : SAMSONITE CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 11200 EAST 45TH AVENUE, DENVER, COLORADO 80239, U.S.A.

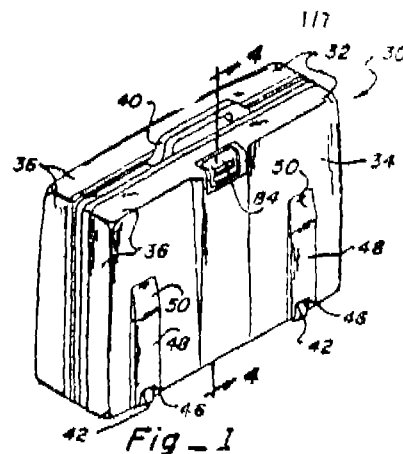
Inventor : WILLIAM L. KING & DANIEL G. ELLES.

Application for Patent No. 308/DEL/88 filed on 12-4-88.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## Claims 15

An article of luggage incorporating the combination of a handle unit and an auxiliary strap means, said article of luggage being composed of a main body portion enclosing an interior space for storing articles, said main body portion being provided with roller means whereby said article of luggage can be rolled along a supporting surface while being held by said handle unit, said handle unit comprising a retractable pull handle provided with said main body portion and said auxiliary strap means comprising an elongated strap mounted in yieldingly biased relationship within said handle means whereby said strap can be withdrawn from a retracted position on said handle to an extended position for releasably securing an auxiliary article of luggage to said article of luggage.



(Comp. Spcn. 35 Pages;

Drwgs. 7 Sheets)

Ind. Cl. 92 E [I(3)].

17362

Int. Cl.<sup>4</sup> : A21D 8/04.**AN IMPROVED PROCESS FOR THE HYDROLYSIS OF CASSAVA FLOUR**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : THOLATH EMILLA ABRAHAM VAKKATE PALLI SREEDHARAN, SONTI VENKATA RAMAKRISHNA.

Application for Patent No. 1053 DEL 88 filed on 1 Dec. 1988.

Complete specification filed on 26 Dec. 1989.

Appropriate office for opposition proceedings (Rules 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**CLAIMS 5**

An improved process for the hydrolysis of cassava flour, for hydrolysis of starchy material to sugars, which comprises liquifying cassava flour with a mineral acid and water, heating the slurry to a temperature in the range of 80° C to 95° C at a pH in the range of 2 to 2.5 cooling the slurry and then increasing its pH to 4-5 with alkali saccharifying the resultant slurry by heating the said slurry with mouldy bran of *Aspergillus* sp. in presence of wheat bran at a temperature in the range of 50° C to 60° C and pH in the same range of 4 to 5 under continuous agitation.

(Provisional Specification 6 Pages & Drawing Sheet Nil)  
(Complete Specification 12 Pages & Drawing Sheet Nil)

Ind. Cl. : 32 C [IX(1)].

173626

Int. Cl.<sup>4</sup> : A 61 K 37/02, CO 7 K 15/00.**AN IMPROVED PROCESS FOR THE ISOLATION OF HUMAN ALPHA PETOPROTEIN.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860) HEREBY DECLARE.

Inventors : VEENA BANSAL, & MAHARAJ KISHAN SAHIB.

Application for patent No. 1102/DEL/88 filed on 15 Dec. 1988.

Complete Specification filed on 8 MAR 1990.

Appropriate office for opposition proceedings (Rules 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**CLAIMS 4**

An improved process for the isolation of human alpha fetoprotein which comprises (i) treating the tissues of fetal skin, liver or brain or fetal serum with anti adult human serum immunoglobulins filtering to remove the immunoprecipitate (ii) treating the supernatant containing AFP and excess immunoglobulins by ion exchange chromatography to remove the immunoglobulins, (iii) eluting the adsorbed proteins with a buffer containing sodium chloride: the unadsorbed proteins being used again in the step (i); (iv) the absorbent being eluted again with a buffer containing 0.15 to 0.2 M NaCl, the elute containing traces of immunoglobulins being used again in the step (i) for the immunoprecipitation.

(Complete Specification 7 pages & Drawing Sheets Nil)  
(Provisional Specification 8 pages & Drawing Sheets Nil)

Ind. Cl. : 83 A 2.

173627

Int. Cl.<sup>4</sup> : A 23 C, 17/00, 17/02.**A PROCESS FOR PREPARING CEREAL LASSI CONCENTRATE.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860) HEREBY DECLARE.

Inventors : JAYANTI BHAI DAHYABHAI PATEL, & KOHERIPATTI RAMASESHAN SREEKANTIAH.

Application for patent No. 1129/DEL/88 filed on 21 Dec. 1988.

Complete Specification filed on 8 Mar 1990.

Appropriate office for opposition proceedings (Rules 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**CLAIMS 3**

A process for preparing cereal lassi concentrate which comprises mixing milk, skin milk or reconstituted milk having 15% milk solids, 6% rice or corn starch by weight of total concentrate in water having a temperature around 45° C in an amount sufficient to form a paste, adding to this paste the water having temperature around 80° C with constant stirring to make total vol. of 100, filtering to remove the lumps if any, gelatinising at 85° C for 10 minutes, under stirring, cooling the gelatinised product to 70° C, adding an enzyme such as amilozyme and maintaining the said mixture for 10-30 minutes for hydrolysing, raising its temperature and maintaining at 90° C for 10 minutes, cooling to 45° C adding yoghurt culture i.e. (*Streptococcus thermophilus* and *Lactobacillus bulgaricus*) at 5% BY WT., THEN INCUBATING at 45° C for 24 hrs to from curd, blending the curd with sugar syrup to get the lassi concentrat.

(Complete Specification 6 Pages & Drawing Sheet Nil)  
(Provisional Specification 6 Pages & Drawing Sheets Nil)

Ind. Cl. : 55E<sub>2</sub>

173628

Int. Cl.<sup>4</sup> : A 61K 6/00.**PROCESS FOR THE PREPARATION OF ANTI-BACTERIAL ANTIPLAQUE, ANTICALCULUS ORAL COMPOSITION.**

Applicant : COLGATE PALMOLIVE COMPANY, A DELAWARE CORPORATION OF 300 PARK AVENUE NEW YORK, NEW YORK 10022 UNITED STATE OF AMERICA.

Inventors : ABDUL GAFFAR, NURAN NABI, JOHN AFFLITTO & ORUM STRINGER.

Application for patent No. 1222/DEL/89 filed on 21 Dec. 1989.

Appropriate office for opposition proceedings (Rules 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**CLAIMS 38**

A process for the preparation of oral composition comprising of mixing in an orally acceptable vehicle an effective anticalculus amount of material comprising 0.1-3% by weight of at least one linear molecularly dehydrated polyphosphate salt as anticalculus agent, an effective antiplaque amount comprising from 0.01 to 5% by weight of a substantially water insoluble noncationic antibacterial agent and up to about 4% by weight of an antibacterial enhancing agent which enhances delivery of said antibacterial agent, to, and the retention thereof on, oral surfaces, with the proviso that when said antibacterial-enhancing agent is a water soluble alkali metal or ammonium synthetic anionic linear polymeric polycarboxylate salt having a molecular weight of 1,000 to 1,000,000 the weight ratio of antibacterial-enhancing agent to polyphosphate ions ranges from 1.6 : 1 to 2.7 : 1.

(Complete Specification 38 Pages & Drawings Sheets III)

Ind. Cl. : 32 [IX(1)]

173629

Int. Cl.<sup>4</sup> : C12N 11/00, 11/08.

AN IMPROVED PROCESS FOR PREPARATION OF POROUS SPHERICAL BEADS OF POLYACRYLAMIDE GEL WITH ENTRAPPED ENZYMES OR YEAST CELLS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : HEPHZIBAH SIVARAMAN, ARCHANA VISHNU PUNDLE, ASMITA ASHUTHOSH PRABHUNE, SEETARAMARAO, BOMMARAJU AND SABIRAHMED MEHBOOB KOTWAL.

Application for Patent No. 1234/DEL/89 filed on 26 Dec. 1989.

Appropriate office for opposition proceedings (Rules 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## CLAIMS 9

An improved process for the preparation of porous spherical beads of polyacrylamide gel with entrapped enzyme or yeast cells, which comprises, mixing acrylamide monomer, N, N'-bisacrylamide, sodium alginate and N, N, N', N'-tetramethylethylenediamine containing the enzyme or yeast cells and an accelerator cooling the mixture to a temperature in the range of 0-15°C, adding the mixture to a stirred pre-cooled solution of calcium salt to yield calcium alginate coated droplets of the mixture, treating the calcium alginate coated droplets with glutaraldehyde in case enzymes are entrapped allowing polyacrylamide to gel within the droplets, and leaching the resulting beads with a phosphate or citrate buffer.

(Compl. specn. 14 pages).

Ind. Cl. 32F<sub>3</sub>c & 55A&F

173630

Int. Cl. : C07C 39/06.

AN IMPROVED PROCESS FOR THE PREPARATION OF 2, 3, 6-TRIMETHYL PHENOL.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : HANDAVILII VENKATA RAMANAMURTY, GURAJADA SARABHA SALVAPATI, MUPURI JANARDANARAO, YERRAMILI VENKATA SUBBARAO

Application for patent No. 1235/Del/89 filed on 26 Dec 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## Claims 4

An improved process for the preparation of 2, 3, 6-trimethyl phenol which comprises reacting m-cresol with methanol in the molar ratios ranging from 1 : 2 to 1 : 10 in the vapour phase over a magnesium oxide as a catalyst in the temperature range of 400 to 600°C and at a space velocity ranging from 0.25 to 5.0 h<sup>-1</sup> condensing the resulting liquid, separating 2, 3, 6-trimethyl phenol recycling the remaining liquid for the complete conversion of m-cresol to 2, 3, 6-trimethyl phenol.

(Compl. Specn. 9 pages)

Cl. : 10 F

173631

Int. Cl.<sup>4</sup> : F 41 G 7/30.

"COURSE CORRECTION SYSTEM FOR WIRELESS CORRECTION OF THE COURSE OF A LAUNCHED OBJECT."

Applicant : HOLLANDSE SIGNAALAPPARATEN B.V. OF ZUIDELIJKE HAVENWEG 40, 7550-GD HENGEL, THE NETHERLANDS.

Inventors :

(1) WOLFF, HENDRIKUS JOHANNES GERHARDUS.

(2) HAVERDINGS, HENDRIK.

(3) ZWART, HENDRIK JAN.

Application No. 631/Cal/89; filed on 03rd August 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

## 18 Claims

Course-correction system for wireless correction of the course of launched object, said system comprising atleast one transmitting and controlled device provided with control unit and transmitting unit adapted to generate a course-correction signal for correction of the course of the launched object when said object deviates from its course, the said object being fitted with a receiving device having means for receiving said course-correction signal generated from said transmitting and control device, means for transmitting atleast a part of said course-correction signal to a selection unit, said course-correction signal containing course-correction information and identification codes for separate or collective correction of course of said launched object, said selection unit having means for selecting course correction information from said course-correction signal on the basis of said identification code contained in said course-correction signal and means for supplying the said information to a correction means for executing the course-correction.

(Compl. Specn 28 pages.

Drgs. 5 sheets)

Cl. : 35-E

173632

Int. Cl. : C 04 B 35/00, 14/00, 20/00, 22/00, 33/00.

"A METHOD FOR FORMING A METAL MATRIX COMPOSITE BODY BY AN OUTSIDE-IN SPONTANEOUS INFILTRATION PROCESS."

Applicant : LANXIDE TECHNOLOGY COMPANY, LP. OF TRAIER INDUSTRIAL PARK NEW YORK DELAWARE 19714-6077, UNITED STATES OF AMERICA.

Inventor : RATNESH KUMAR DWIVEDI.

Application No. 807/Cal/89; filed on 29th September 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

## 39 Claims

A method for making a metal matrix composite, such as herein described comprising :

providing a substantially non-reactive filler;

communicating a localized infiltrating atmosphere such as herein described with at least a portion of said filler; and

spontaneously infiltrating such as herein described at least a portion of the filler with molten matrix metal such as herein described.

(Compl. Specn. 51 pages.

Drgns. 3 sheets)

Cl. : 71 F.

173633

Int. Cl.<sup>4</sup> : E-21 D 15/44.

"HYDRAULIC MINING STEEL PROP."

Applicant & Inventor : MARTHA-CATHARINA HEILIGER OF HOCHKOPPEI 11 5166 KREUZAU-UNTER-MAUBACH, WEST GERMANY.

Application No. 814/Cal/89; filed on 29th September 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

## 28 Claims

A hydraulic steel prop for mines, comprising a first prop section and second prop section, one of said first and second prop section having a prop foot (14, 14', 25) while the other of said first said second proper sections has a prop head (4, 24), said first and second prop sections having an outer cylindrical tube (1) and an inner cylindrical tube (2) slidably received in said outer cylindrical tube (1), one of said cylindrical tubes having a foot end secured to said prop foot, a first seal between said foot end and said prop foot, the other of said cylindrical tubes having a head end secured to said prop head, a second seal between said head end and said prop head, a guide collar (16) surrounding said outer cylindrical tube for guiding said inner cylindrical tube in said outer cylindrical tube, a piston (9, 9', 37) secured to said inner cylindrical tube for guiding said inner cylindrical tube inside said outer cylindrical tube, a third seal (10) between said piston and said outer cylindrical tube for sealing a compression chamber (26) in said outer cylindrical tube, a first tension member (3) interconnecting said prop head and said piston (9, 9', 37) for taking up axial tension loads, a second tension member (7, 7') arranged coaxially inside said cylindrical tubes and slidably passing through said piston, means (47) securing a fixed end of said second tension member (7, 7') to said prop foot (14, 14', 25) a stop (8) at a free end of said second tension member (7, 7'), a compression spring (6) co-axially arranged around said second tension member (7, 7'), said compression spring (6) having one spring end bearing against said stop (8) and another spring end bearing against a support means (11, 40) for taking up an axial force tending to compress said compression spring, whereby said compression spring (6) has a biasing force tending to displace said piston (9, 9', 37) toward said prop foot, a setting and withdrawal valve (21) in said steel prop, and flow conduit means connecting said setting and withdrawal valve (21) to said compression chamber (26) through one of said prop head and said prop foot.

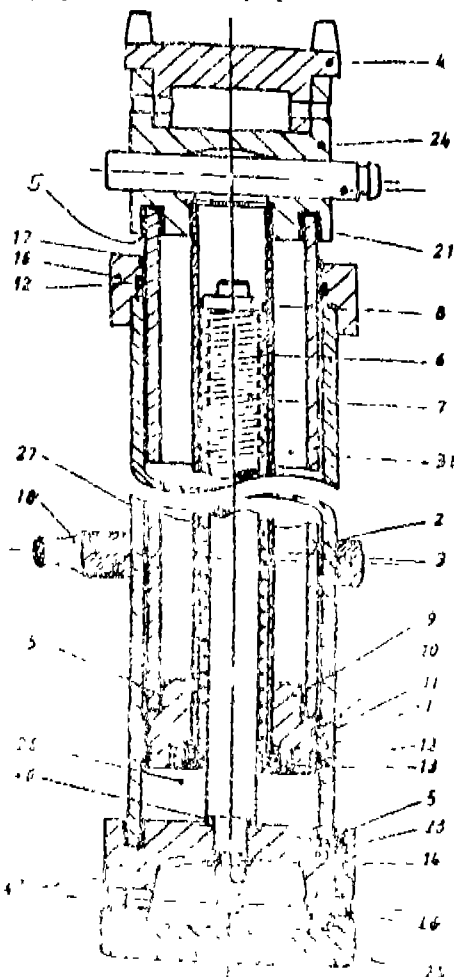


Fig 1

(Compl. Specn. 33 pages.

Drgns 6 sheets)

2-117 GI/94

## Cl.: 94 A

173634

Int. Cl.: B 02 C 17/16.

## "AGITATOR BALL MILL."

Applicants: (1) WALTER EIRICH OF SPESSARTWEG 18, D-6969 HARDHEIM, (2) PAUL EIRICH OF BAHNHOFSTRASSE 11, D-6969 HARDHEIM, (3) HUBERT EIRICH OF ERSTE SANDWEG 16, D-6969 HARDHEIM, FEDERAL REPUBLIC OF GFRMANY.

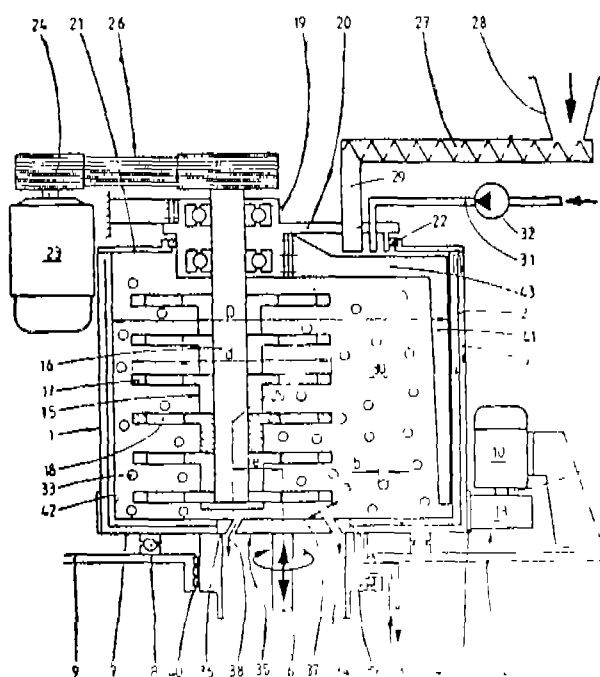
Inventor: HERBERT DURR.

Application No. 876/Cal/89; filed on 23rd October 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

## 34 Claims

Agitator ball mill comprising a grinding container (1) having a cylindrical grinding chamber (30), which is defined by a cylindrical grinding-chamber wall (42), and at least one agitator (15, 104) which is arranged in said grinding chamber and is provided with projecting agitating tools (17, 106) and the agitator axis (25, 108) of which extends parallel with the central longitudinal axis (6) of the grinding chamber (30), wherein the agitator (15, 104), on the one hand, and the grinding container (1), on the other hand, can be rotationally driven about their respective axis (25, 108; 6) by means of a drive, wherein the grinding chamber (30) is partially filled with auxiliary grinding bodies (33) which are fairly freely movable in a mixture of grinding stock/auxiliary grinding bodies, and wherein the grinding chamber (30) is provided with a grinding-stock feed means (29, 52, 60, 80, 83, 93) and a grinding-stock discharge means comprising a grinding-stock/auxiliary-grinding bodies separating device (35, 53, 61, 88, 98), characterized in that the agitator axis (25, 108) has an eccentricity ( $e$ ,  $e'$ ) relative to the central longitudinal axis (6) of the grinding chamber (30), and that, in the region of the cylindrical grinding-chamber wall (42), at least one stationary deflector (41) is provided which is directed from the latter into the grinding chamber (30) and which extends across a substantial portion of the length of the grinding chamber (30) and parallel towards its central longitudinal axis (6) and which has a deflecting face (44) which is open in the direction of the central longitudinal axis (6), and that the deflector (41) is arranged in the transition area to a contracted cross-sectional area (49) of the grinding chamber (30), the agitator axis (25) being arranged in the contracted cross-section (49) and the latter being defined by a plane placed through the central longitudinal axis (6), which is normal to a plane, which is fixed by the central longitudinal axis (6) and the agitator axis (25).



(Compl. Specn. 37 pages.

Drgns. 10 sheets)



characterized in that the adherence of said surface-treated phosphor materials to said photoconductive layer is increased by contacting said surface treated phosphor materials and the underlying photoconductive layer with a solvent to render said layer and said materials tacky.

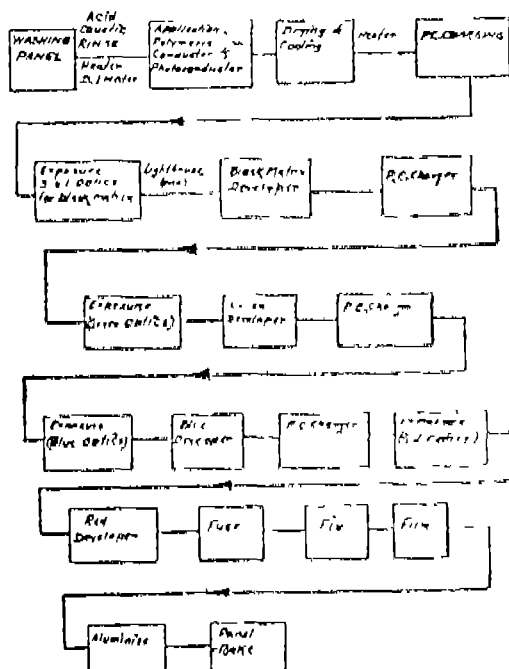
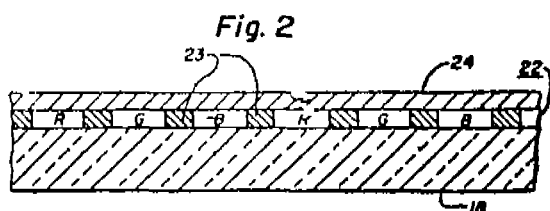
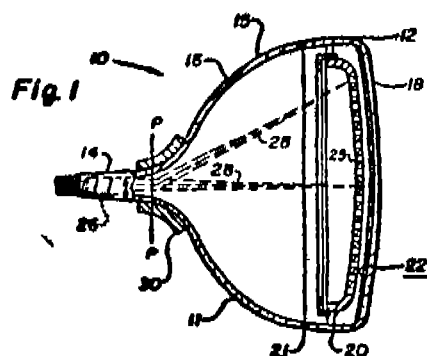


Fig. 4

Cl.: 127 D, 1

173638

Int, Cl, , H 01 O, 3 /00

DEVICE FOR DRIVING IN ROTATION A STRUCTURE OF LARGE DIAMETER PARTICULARLY AN ANTENNA.

Applicant: NEYRPIC FRAMATOME MECANIQUE OF  
16, FR-92084 PARIS LA DEFENSE, FRANCE

Inventors :

(1) PATRICE RINGO†

(2) MARC PARINDI I.

Application No. 282/Cal/90; filed on 05th April 1990.

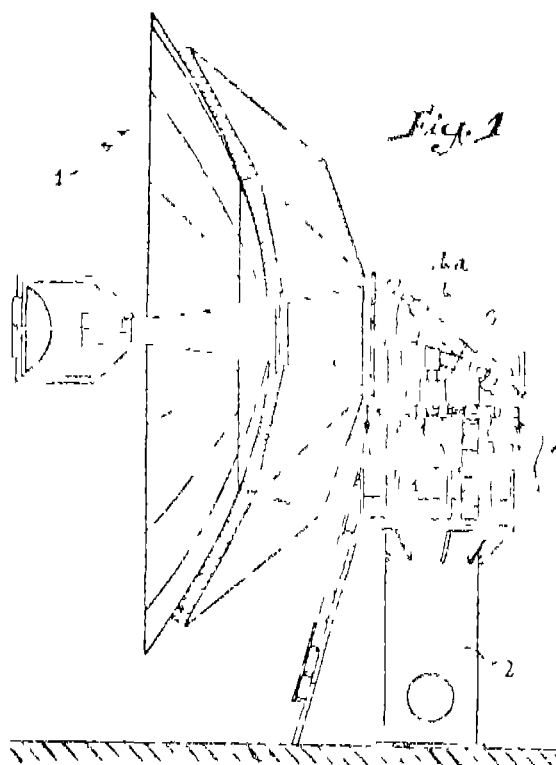
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

## 5 Calims

Device for driving in rotation a structure of large diameter, particularly an antenna (1), of the type comprising a fixed ring gear (5) with which meshes a pinion fixed on the driven shaft of a reversible gear motor (6) with a view to varying the angular orientation of the structure, characterized in that it comprises, in combination:

—a gear motor (6) known per se ensuring a rapid angular displacement of the antenna (1) through an angle of the order of  $340^\circ$  continuously;

—and a mechanism for slow rotation (9-10) through an angle reduced to  $\pm 18^\circ$  constituted by a screw jack (8) whose end is articulated on a carriage (9) bearing a positive coupling system (10) with the toothings (5<sup>a</sup>) of the ring gear (5).



Cl.: 190 B, 201 D.

173639

Int. Cl.: F 02 C, 1/04.

B 01 D, 19/02.

## A COMBINED CYCLE POWER PLANT.

Applicant: WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors:

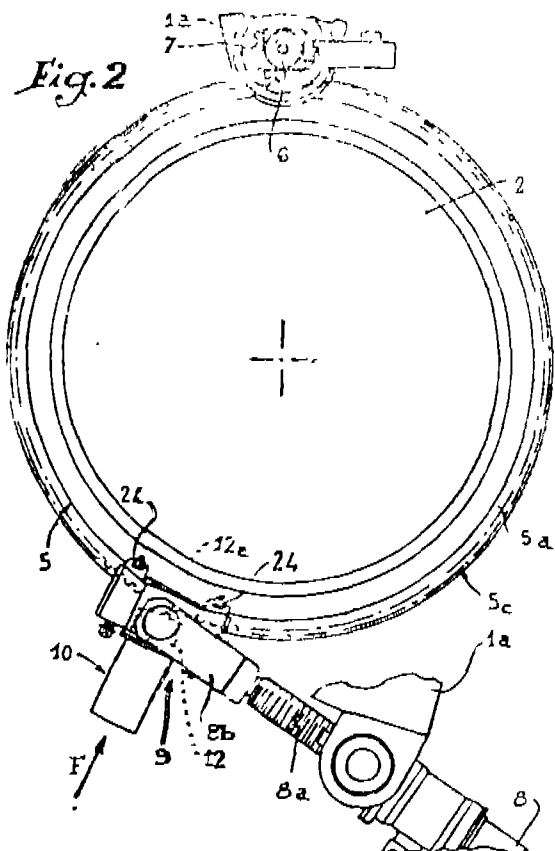
- (1) JAMES PAVEL.
- (2) BENNIE LEE RICHARDSON. and
- (3) GERALD ARTHUR MYERS.

Application No. 300/Cal/90; filed on 11th April 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

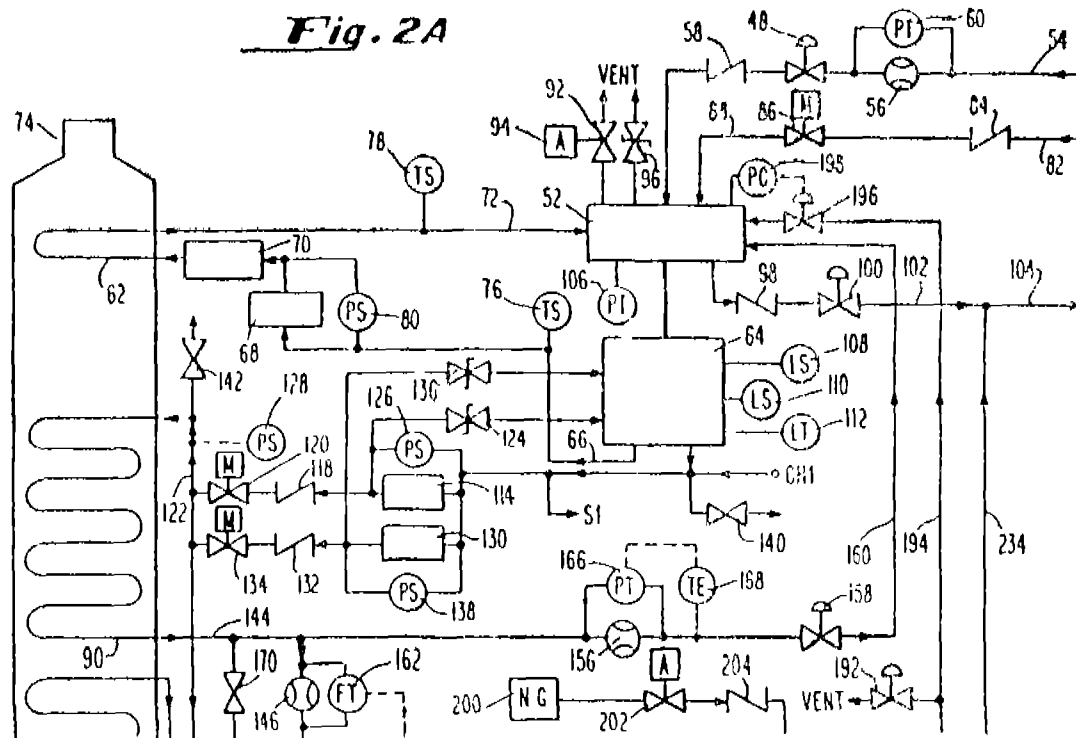
## 8 Claims

A combined cycle power plant (10) comprising a deaerator (52) having primary and secondary functions, said primary function to degasify feedwater for use in the combined cycle power plant (10), and said deaerator (52) comprising means for normally coupling said deaerator to the combined cycle power plant as a normally functioning part thereof, characterized in that said deaerator also comprises means (266, 278) for isolating said deaerator (52) from the combined cycle power plant (10) during operations thereof, and alternate means (59, 64, 160, 194, 262, 270, 272) for performing said primary and secondary functions when said deaerator (52) is isolated from the combined cycle power plant (10), during operations thereof, by said isolating means (266, 278).



(Compl. Specn. 8 pages.

Drgns. 7 sheets)



(Compl. Specn. 28 pages.

Drgns. 4 sheets)

Cl.: 35 B.

173640

Int. Cl.: C 04 B 7/38, 7/00.

**A NOVEL PROCESS AND APPARATUS FOR BENEFICIATION OF CEMENT RAW MATERIALS.**

Applicant &amp; Inventor: MONOJ KUMAR CHOUDHURY OF 6A, BALLYGUNGE PLACE, CALCUTTA-700019, WEST BENGAL, INDIA.

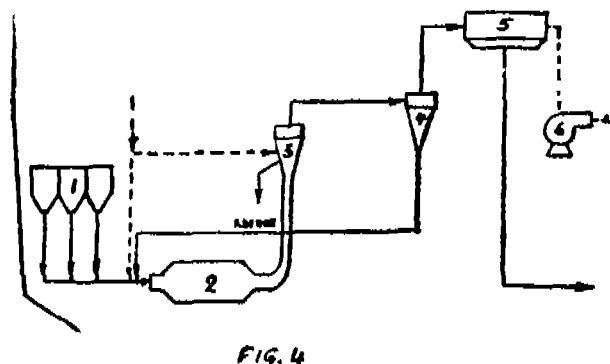
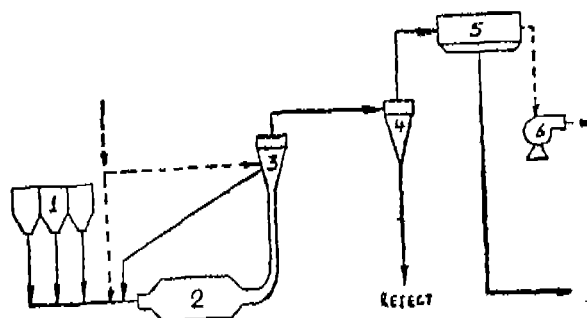
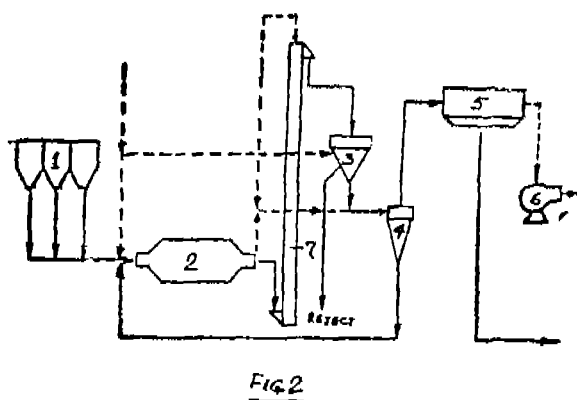
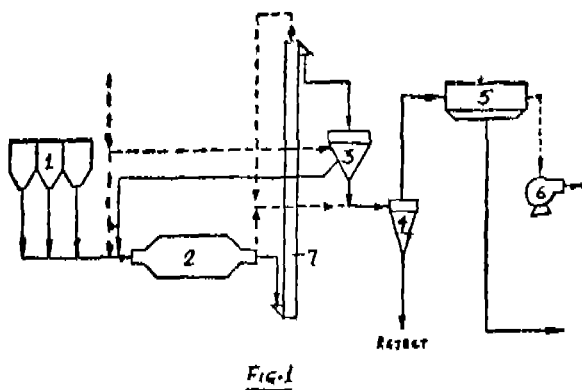
Application No. 316/Cu/90; filed on 18th April 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

## 14 Claims

A novel process for beneficiation of cement raw materials during crushing and/or grinding operation in the course of production of cement by reducing the silica and/or silicate content in the raw mix, which process comprises in combination—

- (i) feeding the raw materials to a grinder;
- (ii) removing the ground material for further processing after separation of large particles for recirculation to the grinder or rejection;
- (iii) separating the coarse silica or siliceous compounds, which are hard or difficult to grind, from the raw mix, for rejection or recirculation to the grinder;
- (iv) collecting the enriched fines from step (iii) and, as required;
- (v) returning the coarse separated in step (ii) or step (iii) to the grinder and repeating the above sequence of steps for recovering desired cement raw material adhering to the said coarse particles, after rejection of coarse fraction in step (iii) or step (ii), respectively.



(Compl. Specn. 20 pages.)

Drgns. 3 sheets)

Ind. Cl.: 144-E<sub>2</sub> [GROUP—XII(3)]

173641

Int. Cl.<sup>4</sup>: C 09 D 5/14.**A PROCESS FOR PREPARING AN ANTI-FOULING COMPOSITION.**

Applicant: BATTELLE MEMORIAL INSTITUTE, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF OHIO, OF 505 KING AVENUE, COLUMBUS, OHIO 43201-2693, U.S.A.

Inventors:

- (1) RICHARD JAMES DICK.
- (2) VINCENT DANIEL MCGINNIS.

Application No. 113/MAS/90 filed February 13, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Madras Branch.

## 12 Claims

A process for preparing an anti-fouling composition, said process comprising reacting an anti-fouling agent such as herein defined with a coupling agent such as herein defined to form a polymer or oligomer bearing said anti-fouling agent to maintain the anti-fouling activity of the agent in the polymer or oligomer; and thereafter combining 1 to 20% wt of said polymer or oligomer with 99 to 80% wt of a carrier such as herein defined for the polymer or oligomer, said carrier having a thermoplastic or thermosetting binder and a known solvent; wherein said anti-fouling agent is a pesticide or herbicide compound having a X value of between 0.01 and 0.5; a Z value for vinyl or aromatic compounds of between 0.01 and 0.08; and an LD50 value of at least 200 mg/kg against rats or mice.

(Com. 50 pages).

Ind. Cl.: 128-F [GROUP—XIX(2)] 173642

Int. Cl.<sup>4</sup>: A 61 M 5/00.

AN IN-LINE CONNECTOR FOR MAINTAINING OR PROVIDING STERILE OR SPECIFIC PATHOGEN FREE ENVIRONMENT.

Applicant: HAMPSHIRE ADVISORY AND TECHNICAL SERVICES LIMITED, OF 39 SOUTH VIEW ROAD, UPPER SHIRLEY, SOUTHAMPTON SO1 5JD, GREAT BRITAIN, AN ORGANISATION EXISTING UNDER THE LAWS OF UNITED KINGDOM.

## Inventors:

- (1) PHILIP MONRO.
- (2) MICHAEL WILSON.

Application No. 244/MAS/91 filed March 25, 1991.

Convention date: March 26, 1990; (No. 9006748; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 4 Claims

An in-line connector for maintaining or providing sterile or specific pathogen free environment comprising a first port (4) for connection to a source of sterile liquid, a second port (5) for connection to a transfer tube or injection module and a third port (9) for introducing secondary substances, said first and second ports being connected to said third port by way of at least one semi-permeable membrane (11) whereby drugs and/or nutritional solutes may be introduced to solution in a transfusing liquid without introducing external contaminants.

(Com. 16 pages;

Drwgs. 2 sheets)

Ind. Cl.: 32-C [GROUP—IX(1)]

173643

Int. Cl.<sup>4</sup>: C 07 K 3/12.

A PROCESS FOR THE SEPARATION OF A PROTEIN.

Applicant: ASTRA RESEARCH CENTRE INDIA, A REGISTERED INDIAN SOCIETY, OF 18TH CROSS, MALLESWARAM, BANGALORE-560 003, KARNATAKA STATE.

## Inventors:

- (1) S. ELANGO.
- (2) SHANTHA RAJARATHNAM.
- (3) VASANTHI RAMACHANDRAN.
- (4) RAMAN K. ROY.
- (5) K. SHANKARAN.
- (6) Y. V. B. K. SUBRAHMANYAM.

Application No. 758/MAS/91 filed October 9, 1991.

Divisional to PA NO. 84/MAS/89, Ante-dated to 1-2-89.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 5 Claims

A process for the separation of a protein of apparent molecular weight of 63KDa, 58KDa or 43KDa which comprises the steps of inducing virulent pathogenic bacteria such as herein described with congo red as the induction triggering factor, releasing the said proteins by lysis and separating the proteins by a known method as SDS-PAGE such as herein described.

(Com. 35 pages;

Drwgs 10 sheets)

Ind. Cl.: 55-E<sub>4</sub> [GROUP—XIX(1)]

173644

Int. Cl.<sup>4</sup>: A 61 K 39/00.

A PROCESS FOR THE PREPARATION OF A VACCINE AGAINST THE INFESTATION OF INVASIVE PATHOGENS.

Applicant: ASTRA RESEARCH CENTRE INDIA, A REGISTERED INDIAN SOCIETY, OF 18TH CROSS, MALLESWARAM, BANGALORE-560 003, KARNATAKA STATE.

## Inventors:

- (1) S. ELANGO.
- (2) SHANTHA RAJARATHNAM.
- (3) VASANTHI RAMACHANDRAN.
- (4) RAMAN K. ROY.
- (5) K. SHANKARAN.
- (6) Y. V. B. K. SUBRAHMANYAM.

Application No. 759/MAS/91 filed October 9, 1991.

Divisional to PA NO 84/MAS/89, Ante-dated to 1-2-89.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 1 Claim

A process for the preparation of vaccine against the infestation of invasive pathogens including bacteria, unicellular and multicellular organisms, parasites and viruses by a known method such as herein described which comprises:—

- (i) separating by a known method a protein of apparent molecular weight of 63KDa, 58KDa or 43KDa obtained by inducing virulent pathogenic bacteria such as herein described with congo red as the induction triggering factor and relating the said proteins by lysis;
- (ii) Formulating in a known manner such as herein described the said protein in pharmacologically effective dose in a known pharmaceutically acceptable adjuvant such as herein described.

(Com. 36 pages;

Drwgs 10 sheets)

Ind. Cl.: 128-G [GROUP—XIX(2)]

173645

Int. Cl.<sup>4</sup>: A 61 B 5/00.

A METHOD FOR PREPARING A DIAGNOSTIC KIT TO DETECT ANTIBODIES AGAINST ANTIGENS OF CYSTICERCUS CELLULOSA.

Applicant: ASTRA RESEARCH CENTRE INDIA, A REGISTERED INDIAN SOCIETY, 18TH CROSS, MALLESWARAM, BANGALORE-560 003, KARNATAKA STATE.

## Inventors:

- (1) B. V. RAVIKUMAR.
- (2) V. SURYANARAYANA.
- (3) A. CHANDRAMUKHI.
- (4) V. RAVI.

Application No. 760/MAS/91 filed October 9, 1991.

Divisional to PA NO 605/MAS/91, Ante-dated to 19-9-88.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 6 Claims

A method for preparing a diagnostic kit to detect antibodies against antigens of cysticercus cellulosa comprising:

- (a) a chemical compound such as a microtitre plate coated with a novel polypeptide antigen such as herein described;

- (b) a blocking solution containing bovine serum albumin and a solution containing phosphate buffered saline containing tween-20.
- (c) a washing solution such as phosphate buffered saline containing tween-20.
- (d) a human IgG detection reagent comprising human IgG coupled to a known reporter enzyme;
- (e) a chemical compound for colourimetric detection; by packaging the materials of a, b, c, d and e together.

(Com. 26 pages;

Drwgs. 5 sheets)

Ind. Cl. : 32-C [GROUP—IX(1)]

173646

Int. Cl. : C 07 K 3/12.

A METHOD OF PRODUCING A PURIFIED PROTEIN COMPLEX H45 FROM A FEED SOLUTION CONTAINING SAME.

Applicants & Inventors : EDWARD ALBERT MUNN, OF 72 STATION ROAD, FULBOURN, CAMBRIDGE CB1 5ES, ENGLAND; AND TREVOR STANLEY SMITH OF 6 THE CLOSE, BRAHAM, CAMBRIDGE CB2 4AQ, ENGLAND, BOTH OF BRITISH NATIONALITY.

Application No. 853/MAS/91 filed November 18, 1991.

Convention date 17-3-1989; (No. 8906156.8; United Kingdom).

Divisional to Patent Application No. 203/MAS/90; Antedated to March 19, 1990

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 2 Claims

A method of producing a purified protein complex, H45 from a feed solution containing same, the said method comprises contacting said feed solution with an immobilised protein reagent comprising a material selected from lectins, antibodies to H110D, and antibodies to H45, bound to a matrix, followed by selective elution of components bound to the immobilised protein reagent, collecting a first eluate fraction containing the protein complex H45, adsorbing the protein complex H45 from the first eluate fraction on an anion exchange resin, and subsequently eluting the protein complex H45 from the anion exchange resin to form a product eluate fraction containing purified protein complex H45

(Com. 21 pages;

Drwgs. 2 sheets)

Ind. Cl. : 32-F<sub>2</sub>(C) [GROUP—IX(1)]

173647

Int. Cl. : C 07 C 149/24.

A PROCESS FOR PREPARING N-SUBSTITUTED-1-ALKYLTHIO-2-NITROETHANAMINE.

Applicant : GLAXO GROUP LIMITED, A BRITISH COMPANY OF CLARGES HOUSE, 6-12 CLARGES STREET, LONDON W1Y 8DH, ENGLAND

Inventors :

- (1) JAMES IAN GRAYSON.
- (2) GRAHAM HEYFS
- (3) ARTHUR JACKSON.
- (4) PAUL EDWARD ROWNEY.

Application No. 871/MAS 91 filed November 25, 1991

Convention date : April 5, 1989; (No. 89 07700.2; Great Britain).

Divisional to Patent Application No. 247/MAS/90; Antedated to April 4, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 7 Claims

A process for preparing N-substituted-1-alkylthio-2-nitroethanamine of formula II of the accompanying drawing,

in which R<sub>1</sub> is a straight chain C<sub>1-4</sub> alkyl group or a substituted alkyl group containing a heteroatom in the chain and R<sub>2</sub> represents a C<sub>1-4</sub> alkyl group, comprising alkylating a potassium compound of formula I of the accompanying drawings with an alkylating agent such as herein described at a temperature range of from 0 to 60°C.

(Com. 12 pages;

Drwgs. 2 sheets)

Ind. Cl. : 32-F<sub>2</sub>(b) [GROUP—IX(1)]

173648

Int. Cl. : C 07 D 307/38

A PROCESS FOR THE PREPARATION OF RANITIDINE.

Applicant : GLAXO GROUP LIMITED, A BRITISH COMPANY OF CLARGES HOUSE, 6-12 CLARGES STREET, LONDON W1Y 8DH, ENGLAND.

Inventors :

- (1) JAMES IAN GRAYSON.
- (2) GRAHAM HEYES.
- (3) ARTHUR JACKSON.
- (4) PAUL EDWARD ROWNEY.

Application No. 872/MAS 91 filed November 25, 1991.

Convention date : April 5, 1989; (No. 89 07700.2; Great Britain).

Divisional to Patent Application No. 247/MAS/90; Antedated to April 4, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 3 Claims

A process for the preparation of ranitidine comprising reacting 2-[5-(N, N-dimethylaminomethyl)-2-furanmethylthio] ethylamine with N-substituted-1-alkylthio-2-nitro ethanamine of the formula II of the accompanying drawings.

in which R<sub>1</sub> represents a straight chain C<sub>1-4</sub> alkyl group or a substituted straight chain alkyl group containing a heteroatom in the chain and R<sub>2</sub> represents a C<sub>1-4</sub> alkyl group.

(Com. 12 pages;

Drwgs. 2 sheets)

Ind. Cl. : 32-F<sub>2</sub>(a) [GROUP—IX(1)]

173649

Int. Cl. : C 07 C 69/78.

A PROCESS FOR THE PREPARATION OF PROCAINE

Applicant : HOECHST AKTIEGESELLSCHAFT, OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY

Inventor : ERNST A. JURGENS.

Application No. 910/MAS/91 filed December 11, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 3 Claims (No drawing)

A process for the preparation of procaine, which comprises esterifying p-nitrobenzoic acid in butanol in a manner known per se, catalytically hydrogenating the nitro ester without

intermediate isolation, and reacting the resulting hydrogenation solution, after removal by distillation of most of the alcohol used, with diethylaninoethanol in the presence of alkali metal alcoholates at 80 to 150°C, preferably 80 to 130°C, and continuously removing the alcohol liberated thereby in vacuo and recovering the procaine in a known manner.

(Com. 7 pages).

Ind. Class - 32-F<sub>2</sub>(j) - [GROUP - IX(1)] 173650

Int. Cl.<sup>4</sup> - 07 D 239/60

#### PROCESS FOR THE PREPARATION OF A DI-ALKALI METAL 2 (METHYLTHIO)-BARBITURATE

Applicant : LONBA LTD. OF GAMPEL/VALAIS, SWITZERLAND, A COMPANY INCORPORATED UNDER THE LAWS OF SWITZERLAND.

Inventors : (1) JEAN-PAUL RODUIT  
(2) MARCEL ETZENSBERGER  
(3) ALAIN WELLIG

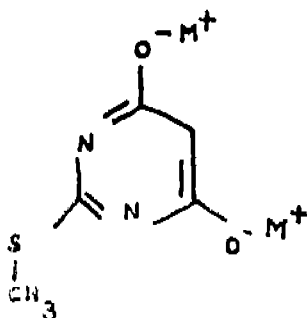
Application No. 538/MAS/92 filed August 27, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

13 Claims (No drawing)

A process of the preparation of a di-alkali metal 2-(methylthio)-barbiturate of the formula

where M is an alkali metal, comprising the steps of reacting thiourea, dimethyl malonate and an alkali metal methanolate in a first stage in presence of methanol to give a di-alkali metal thiobarbiturate, and reacting the said dialkali metal thiobarbiturate in a second stage with a methyl halide, preferably methyl bromide, to obtain the said di-alkali metal (2-methylthio)-barbiturate according to formula 1.



(Com. - 14 pages)

Ind. Class - 39-L - [GROUP - III] 173651

Int. Cl.<sup>4</sup> - C 01 B 17/69

#### A PROCESS AND AN APPARATUS FOR PRODUCING SULFURIC ACID

Applicant : HALDOR TOPSOE A/S., OF NYMOLLEVEJ 55, 2800 LYNGBY, DENMARK, A DUTCH COMPANY.

Inventor : PETER SCHOBYE.

Application No. 401/MAS/89 filed May 19, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Madras Branch.

11 Claims

A process for producing sulfuric acid from gases containing 0.01 to 10% by volume of sulfuric acid and 0 to 50% by volume of water vapour comprises conducting the said gases through substantially vertical acid resistant tubes from below at a temperature of 0 to 100°C above the dew point of sulfuric acid in the gas containing sulphuric acid and cooling during the flow in upward direction to an exit temperature ( $T_2$ ) below the temperature at which at  $H_2SO_4$  vapour pressure is about  $2 \times 10^{-6}$  bar in equilibrium with the partial pressure of aqueous vapour at the outlet, by cooling the tubes with a gas flowing substantially countercurrently therewith, resulting in heating from an inlet temperature  $TA_1$  of 0 to 50°C to an outlet temperature  $TA_2$  °C and satisfying the provi-

$$TA_2 > T_d - 30 = 10^\circ C \text{ and}$$

$$T_2 - TA_1 < 90^\circ C$$

sions in which  $T_d$  is the sulfuric acid dew point in °C of the sulfuric acid containing gas and  $\epsilon$  is the percentage by volume of  $H_2SO_4$  calculated under the assumption that  $SO_3$  has been completely hydrated, allowing the condensed sulfuric acid to flow downwards through the tubes during the cooling; wherein the gas leaving each tube is passed through an aerosol filter mounted in gaslight connection with the tube-top, the said aerosol filter consisting of acid resistant fibres or filaments having a diameter of 0.04 to 0.7 mm and having a layer thickness and configuration to ensure a drop of pressure below 20 m bar while passing through the filter; and recycling the sulfuric acid entrained in the aerosol filter to the tube by flowing downward through the tube countercurrently with the feed gas.

(Com. - 31 pages; Drawgs. - 5 sheets)

Ind. Class - 99-A - [GROUP - XI(4)]

173652

Int. Cl.<sup>4</sup> - B. 65 D 1/02

#### AN IMPROVED ALUMINIUM CONTAINER AND A METHOD OF MANUFACTURING THE SAME.

Applicant : KLAS ENGINEERING PRIVATE LIMITED, 31, 1 BLOCK, (EAST), JAYANAGAR, BANGALORE - 560 011, KARNATAKA STATE, INDIA, AN INDIAN COMPANY.

Inventor : KARACHALA LAKSHMANA VENKATA SUBBIAH.

Application No. 81/MAS/89 filed January 31, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Madras Branch

4 Claims

An improved aluminium container which comprises an elongated body (1) with a neck portion (2) which is tapered at one end and the other end is in cylindrical form so as to form a mouth portion (3), characterized in that the mouth portion is provided with an inbuilt metal diaphragm seal (4) which forms an integral part of the container without any type of joint whatsoever, the bottom (5) being covered with a lid (not shown in figure) which is closed by seaming.

(Com. - 6 pages; Drwg. - 1 sheet)

Ind. Class - 32-A<sub>2</sub> - [GROUP - IX(1)] 173653

Int. Cl.<sup>4</sup> - C 09 B 67/30

**A PROCESS FOR PRODUCING A LIQUID DYE CONTAINING AT LEAST 8% BY WEIGHT OF A SULPHUR DYE IN LEUCO FORM**

Applicant : SANDOZ LTD., A SWISS BODY CORPORA-  
TION OF CH-9002 BASLE, SWITZERLAND.

Inventors : (1) MANUEL JOSE DOMINGO  
              (2) LASZLO A. MASZAROS

Application No. 86 MAS/89 filed February 1, 1989.

Convention date : 02 February, 1988; (No 8803293;  
England)

Appropriate Office for Opposition Proceedings (Rule 4,  
Patents Rule, 1972), Patent Office, Madras Branch.

17 Claims (No drawing)

A process for producing a liquid dye containing at least 8% by weight of a sulphur dye in reducing leuco form comprising the steps of reducing a sulphur dye in an aqueous alkaline medium, the reducing agent being selected from a reducing sugar or a sulphide formed in situ by the reaction of sulphur present in the dye and the alkali of the said medium or by the addition of an external reducing agent, monitoring the process in such a way that the resultant dye has a total inorganic sulphide content of < 3% of weight of the total liquid dye.

(Com. - 23 pages)

Ind. Class - 105 B&C - [GROUP - XII(7)] 173654

Int. Cl.<sup>4</sup> - G 1 P 3/00; 13/04

**AN APPARATUS FOR DETECTING CHANGES IN THE RELATIVE POSITION OF TWO BODIES USING A POSITION SENSOR**

Applicant : ADRIAN MARCH LIMITED, A BRITISH  
COMPANY, OF 7 ARGYLE CLOSE WHITFIELD, BORD-  
DON, HAMPSHIRE GU33 9PU, ENGLAND.

Inventor : ADRIAN ANTHONY MICHAEL MARCH.

Application No. 334/MAS/89 filed May 1, 1989.

Convention date : September 12, 1984; (No. 84.23086;  
Great Britain)

Divisional to Patent Application No 706/MAS/85; Ante-  
dated to September 10, 1985.

Appropriate Office for Opposition Proceedings (Rule 4,  
Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

An apparatus for detecting changes in the relative position of two bodies using a position sensor comprising: a detector in fixed relationship with one of said two bodies, said detector having a plurality of sensitive elements; a scale in fixed relationship with the other of said two bodies, said scale having at least one track of indicia, said at least one track having a predetermined shape, said indicia of said at least one track acting on sensitive elements of at least part of said detector, said at least part of said detector having sensitive elements forming a track with a shape corresponding to said predetermined shape of said at least one track and each of said sensitive elements being operative to detect overlap of that sensitive element and at least one corresponding indicium of said indicia; means for generating a plurality of signals each of which is relative to the overlap of a corresponding sensitive element of said at least a part of said detector with said at least one corresponding indicium; and analyzing means for analyzing said plurality of signals; said analyzing means com-

prising: (a) generating means for providing a plurality of correlation weighing values; (b) investigating means for investigating a plurality of relationships between said plurality of signals and said plurality of correlation weighing values; (c) investigating means comprising modifying means for modifying each of said signals by a corresponding one of said correlation weighing values to generate a plurality of modified signals; and summation means for generating the sum of said plurality of modified signals to obtain a plurality of sums of correlation weighing values corresponding to said plurality of relationships and (d) processing means for processing said plurality of sums to determine the relative position of said scale and said detector thereby determining said relative position of said two bodies.

(Com - 27 pages; Drawgs. - 6 sheets)

Int. Cl. 84 A

173655

Int. Cl.<sup>4</sup> : C 10 L 3/00

**"A METHOD AND APPARATUS FOR MANUFACTURING COMBUSTIBLE GASEOUS PRODUCTS."**

Applicant : ARLIN CARVEL LLWIS A U S CITIZEN OF  
P. O. BOX A U LIBBY, MT 59923 1310 U S A

Inventor : ARLIN C LLWIS.

Application No. 377/Mas/89 filed on 11th March 1989

Appropriate Office for Opposition Proceedings (Rule 4,  
Patents Rules 1972), the Patent Office Branch, Madras -  
600 002.

8 Claims.

A method of manufacturing combustible gaseous products containing mainly hydrogen and carbon monoxide from carbonaceous materials comprising the steps of: (a) providing a primary reaction chamber with at least a first electric arc zone at the bottom of the primary chamber, and a source of moisture in the said electric arc zone; and providing at least a secondary reaction chamber containing an incandescent coke bed, each chamber being of a vertical configuration, (b) charging carbonaceous material into the top of the primary chamber and maintaining a substantially constant volume level of material above the first electric arc zone therein; (c) continuously moving the carbonaceous material downwardly through the primary chamber and into contact with the electric arc zone to activate the gasification of the material electrothermally and photo-chemically to produce a raw product gas therefrom; (d) allowing the said raw product gas to flow upwardly through the downwardly moving carbonaceous material in countercurrent heat exchange therewith to initiate pyrolysis of the incoming material to obtain a condensable fraction and a noncondensable fraction; (e) removing the raw product gas and the noncondensable fraction from the top of the primary chamber and introducing it into the secondary chamber, (f) refluxing the condensable fraction with the downwardly moving carbonaceous material towards the bottom of the primary chamber, and (g) allowing the raw product gas and noncondensable fraction through the incandescent coke bed in the second chamber to produce a refined product gas containing mainly of hydrogen and carbon monoxide.

An apparatus for manufacturing combustible gaseous products comprising mainly carbon monoxide and hydrogen from carbonaceous material by the method claimed in any one of the claims (1 to 3 comprising (a) a primary reactor (3) having a vertical reaction chamber (5) having means (39) positioned at the top of the chamber for maintaining a substantially constant volume level of carbonaceous material in the chamber, a pair of electrodes (17, 19) at the bottom of the chamber for creating at least an electric arc zone of sufficient intensity to electrothermally and photochemically activate gasification of the carbonaceous materials, and a water reservoir (10) disposed below the said electric arc

zone; (b) a secondary reactor (45) having at least one reaction chamber (47) of vertical configuration and having a coke bed (63) disposed therein an electrode (53) extending through the top of the chamber and spaced from the coke bed for creating an electric arc therewith, and a electrode disposed at the bottom of the chamber (63) in electrical connection with the coke bed; (c) means (25, 29, 69) for applying an electric potential across the electrodes in the primary reactor and across the electrodes in the said secondary reactor; (d) a conduit (41) for removing raw product gas from the top of the secondary reactor; and (e) a conduit (71) for removing refined product gas from the bottom of the said secondary reactor.

(Complete Specification 20 pages)

Drg. 1 sheet)

Ind. Cl.: 39 L [GROUP III]

173656

Int. Cl.: C 01 b 17/69.

**A PROCESS FOR MEDICINE SULFURIC ACID**

Applicant: HALDOR TOPSOE A/S, A DANISH COMPANY OF NYMOLLEVEJ 55, 2800 LYNGBY, DENMARK.

Inventor: PETER SCHOUBYE.

Application No. 403/Mas/89 filed on 22nd May 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras-600 002.

**12 Claims**

A process for producing sulfuric acid in a sulfuric acid tower from a gas mixture containing .1 to 10% by volume of  $H_2SO_4$  vapour and 0 to 50% by volume of water vapour comprises mixing  $10^0$  to  $10^{10}$  solid particles per  $Nm^3$  per .1%  $H_2SO_4$  in the gas at its entry and cooling  $H_2SO_4$  by passing the gas mixture through the tower.

(Compl. Specn. 27 pages)

Drg. 4 sheets)

Ind. Cl.: 172-C<sub>4</sub> [GROUP—XX]

173657

Int. Cl.: D 01 H 5/32

**A HIGH-DRAFT DRAFTING DEVICE FOR A FLYERLESS SPINNING PROCESS.**

Applicant: MASCHINENFABRIC RIETER AG., A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF WINTERTHUR, SWITZERLAND.

Inventors:

(1) RUDOLF WEHRLI.

(2) DR. HERBERT STALDER.

Application No. 483/MAS/89 filed June 20, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**10 Claims**

A high draft drafting device for a flyerless spinning process comprising at least one main drafting zone defined between a first pair of separated nips for drafting a flow of fiber material for spinning; at least one preliminary drafting zone defined between a second pair of separated nips for drafting and delivering the flow of fiber material to said main drafting zone; and deflecting means centrally disposed in said preliminary drafting zone for deflecting the flow of fiber material extending therein to impose a frictional force thereon in a direction perpendicular to a straight line between said second pair of separated nips.

(Com. 12 pages;

Drwgs. 1 sheet)

Ind. Cl.: 175-F [GROUP—XLV(3)]

173658

Int. Cl.: F 16 J 15/12.

**A GASKET ASSEMBLY AND A METHOD FOR PRODUCING THE SAME.**

Applicant: DANA CORPORATION, 4500, DORR STREET, TOLEDO, OHIO-43615, U.S.A., A CORPORATION OF THE STATE OF VIRGINIA, U.S.A.

Inventor: JEROME G. BELTER.

Application No. 614/MAS/89 filed August 17, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**9 Claims**

A gasket assembly comprising a sheet of gasket material having first and second surfaces and an aperture formed therethrough; and an insert for at least partially restricting the flow of fluid through said aperture, said insert having a one-piece metallic element having an outer peripheral portion which generally conforms to the shape of said aperture, a first pair of flanges extending outwardly from said peripheral portion and sealingly engaging said first surface of said sheet, and a second pair of flanges extending outwardly from said peripheral portion and sealingly engaging said second surface of said sheet.

(Com. 12 pages;

Drwgs. 3 sheets)

Ind. Cl.: 131-A<sub>1</sub> [GROUP—XXVIII(3)]

173659

Int. Cl.: E 02 D 29/00.

**AN IMPROVED METHOD FOR EXTRACTING OIL OR GAS BY DRILLING IN AN OIL OR GAS YIELDING GEOLOGICAL FORMATIONS.**

Applicant: INSTITUT FRANCAIS DU L'PETROLE, A FRENCH BODY CORPORATE, OF 4 AVENUE DE BOIS PREAU, 92502 RUFIL MALMAISON, FRANCE.

Inventors:

(1) JACQUES BURGER.

(2) GLAUDE GADELLE.

(3) JACQUES SALLE DE CHOU.

Application No. 670/MAS/89 filed September 8, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**10 Claims**

In a method of extracting oil or gas by drilling in an oil or gas yielding geological formation the improvement comprising consolidating the geological formation without appreciably reducing its permeability by injecting a liquid organic mixture containing at least one polyethylenic hydrocarbon with catalysts such as herein described, injecting a chemically inert heated gas mixture through said liquid mixture to raise the temperature of the geological formation to a value for transforming the said liquid organic mixture into a binding substance for binding the non-consolidated elements of the geological formation by thermal polymerisation reaction in order to eliminate the infiltration of sand into the well from geological formation.

(Com. 15 pages;

Drwg 1 sheet)

Int. Cl.: 190-B [GROUP—XLIV(4)]

173660

Int. Cl.: F 01 D 25/26.

A PISTON RING CONNECTION BETWEEN AN INNER AND AN OUTER HOUSING OF A STEAM TURBINE.

Applicant: MAN GUTEHOFFNUNGSHUTTE AKTIEN-GESELLSCHAFT, A GERMAN CORPORATION, OF BAHNHOFSTR 66, 4200 OBERHAUSEN 11, FEDERAL REPUBLIC OF GERMANY.

Inventors:

- (1) FRIEDHELM BANGEL.
- (2) KLAUS BUCHKREMER.
- (3) DIETER FORSTER.
- (4) ACHIM ZIMMERMANN.
- (5) DIETER-HEINZ TREMMEL.

Application No. 88/MAS/90 filed February 1, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 6 Claims

A piston ring connection between an inner housing and an outer housing of a steam turbine to admit high temperature steam at high pressure, comprising a welded-in insert connected into an opening of the outer housing of the turbine; a piston ring supporting sleeve screwed onto said welded-in insert via locking screws, said piston ring supporting sleeve receiving piston rings; a sleeve as counter part to piston rings said sleeve having an inner surface, said piston ring sliding on said inner surface of said sleeve; and, a threaded ring threadedly engaged with an opening of said inner housing and engaging said sleeve to hold said sleeve in place relative to said inner housing.

(Cont. 11 pages;

Drawg 1 sheet)

## PATENT SEALED

ON 20-05-1994

172162 172209 F 172263 172267 D 172269 D 172270 D  
172271 172272 172274 172275 172278 172280  
172281 172283 172285 172286 172287 172288 D 172294  
172297 172298 172302 172303 172304 172306 172313  
172314 172315 172320\* 172326\* 172329\* 172330\*

CAI—03, MAS—05, BOM—00, DEL—24

\*Patent shall be deemed to be endorsed with the words  
LICENSE OF RIGHT Under Section 87 of the Patents Act,  
1970 from the date of expiration of three years from the  
date of Sealing.

D—DRUG PATENT, F—FOOD PATENT

## RENEWAL FEES PAID

152170 152878 153853 153978 154429 154431 154596 154996  
156403 156598 156858 156920 157455 157470 157495 157668  
157735 157990 158147 158270 158271 158362 158593 158649  
158680 158823 158950 159072 159156 159525 159528 159612  
159840 160133 160160 160238 160321 160427 160498 160499  
160809 160990 161023 161028 161076 162804 162816 162977  
163337 163704 163710 163746 163930 163934 164075 164089  
164121 164137 164391 164532 164766 164857 165005 165027  
165229 165273 165644 165698 165712 165745 165983 165066  
166268 166529 166572 166626 166819 166847 166956 167047  
167092 167094 167122 167180 167238 167358 167472 167556  
168246 168688 168733 168762 168780 168781 168906 169051  
169052 169108 169157 169169 169209 169211 169226 169227  
169300 169334 169335 169387 169511 169513 169517 169576  
169580 169594 169600 169601 169632 169656 169736 169837

169862 169868 169900 170085 170260 170302 170313 170313  
170314 170568 170636 170681 170687 170693 170773 170892  
170982 171031 171065 171175 171179 171400 171495 171530  
171612 171704 171718 171723 171802 171822 171913 172057

## CESSATION OF PATENTS

167497 167501 167502 167503 167504 167509 167511 167520  
167527 167532 167533 167536 167539 167558 167564 167567  
167572 167572 167589 167592 167503 167604 167624 167625  
167640 167644 167648 167662 167676 167694 167703 167705  
167714 167717 167724 167725 167741 167743 167750 167761  
167762 167765 167766 167785 167786 167791 167796 167797  
167803 167824 167826 167832 167834 167841 167846 167849  
167850 167863 167870 167871 167876 167879 167893 167894  
167903 167909 167918 167919 167942 167947 167951 167954  
167960 167961 167974

## REGISTRATION PORCELAINS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155931 granted to D.C.M. Shrinani Industries Limited for an invention relating to "a process for recovering pure sulfur from the waste sludge removed from sulfur melting pits in the manufacture of sulfur based chemicals and from low purity sulfur stocks."

The Patent ceased on the 19th May, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 11th June 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagdish Chandra Bose Road, Calcutta 700 020 on or before the 18-8-1994, under Rule 69 of the Patents Rules 1972. A written statement, in duplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or with one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 156030 granted to Chief Controller, Research & Development for an invention relating to "a method for the modification of aluminium-silicon eutectic alloys (silumins) during casting."

The Patent ceased on the 1st May, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 11th June, 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagdish Chandra Bose Road, Calcutta 700 020 on or before the 18-8-1994, under Rule 69 of the Patents Rules 1972. A written statement, in duplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or with one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act 1970 for the restoration of Patent No. 158264 granted to Polmet, Inc. for an invention relating to "improved metallized capacitors and electric capacitors having the same"

The Patent ceased on the 26th May, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 11th June 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagdish Chandra Bose Road, Calcutta 700 020 on or before the 18-8-1994, under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159025 granted to Chief Controller, Research & Development for an invention relating to "a method for the manufacture of a heating bag."

The Patent ceased on the 17th May, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 11th June, 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagdish Chandra Bose Road, Calcutta 700 020 on or before the 18-8-1994, under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 160689 granted to Chief Controller, Research & Development for an invention relating to "an apparatus for forming shaped articles of a metal or alloy by casting and a process thereof."

The Patent ceased on the 1st May, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 11th June, 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagdish Chandra Bose Road, Calcutta 700 020 on or before the 18-8-1994, under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162959 granted to Chief Controller, Research & Development for an invention relating to "a process for the preparation of copolymer of methyl methacrylate and tributyltin methacrylate."

The Patent ceased on the 15th May, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 11th June, 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagdish Chandra Bose Road, Calcutta 700 020 on or before the 18-8-1994, under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 166067 granted to Jean Frederic Melchior for an invention relating to "two-store internal combustion engine and cylinder head provided with solid engine."

The Patent ceased on the 23rd June 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 11th June, 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagdish Chandra Bose Road, Calcutta 700 020 on or before the 18-8-1994, under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 169797 granted to Rosemount Inc. for an invention relating to "a pressure sensor."

The Patent ceased on the 1st June 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent will be notified in the Gazette of India, Part III, Section 2 dated the 11th June, 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagdish Chandra Bose Road, Calcutta 700 020 on or before the 18-8-1994, under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration included in the entries.

Class 1. No. 166350. Anilkumar Pursottamdas Shah, Indian of A/1, Embassy Apts., Excise Chowky, Ambawadi, Ahmedabad-380 015, Gujarat, India. "Pressure Reducing Vapouriser". Oct. 12 1993.

Class 3 Nos. 166364 & 166365. Econogreen (India) Ltd., 97, Dasmesh Nagar, Patiala-147 001, Punjab, India. Indian Company. "Fuel Saving Device for Automobiles". October 13 1993.

Class 3. No. 166924. Sega Enterprises Ltd. of 2-12, Haneda 1-Chome, Ohta-Ku, Tokyo, Japan. "Video Game Machine". March 7, 1994.

Class 3. No. 166931. Patel Electricals of 35, Mahal Industrial Estate, Mahakali Caves Road, Andheri (East), Bombay-400 093, Maharashtra, India. Indian Partnership Firm. "Tube Light Holder" March 8, 1994.

R. A. ACHARYA

Controller General of Patents Designs and Trade Marks

प्रबन्धक, भारत सरकार मुद्रणालय, फरीदाबाद द्वारा मुद्रित  
एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1994

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD,  
AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1994